

SOUTHEAST GAP ANALYSIS PROJECT

Species Modeling Report

PREDICTED HABITAT:

Least Shrew

Cryptotis parva

Taxa: Mammalian

Order: Soricomorpha

Family: Soricidae

SE-GAP Spp Code: **mLESH** ITIS Species Code: 179971 NatureServe Element Code: AMABA04010

KNOWN RANGE:



 Range Map Link:
 http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_mLESH.pdf

 Predicted Habitat Map Link:
 http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_mLESH.pdf

 GAP Online Tool Link:
 http://www.gapserve.ncsu.edu/segap/index2.php?species=mLESH

 Data Download:
 http://www.basic.ncsu.edu/segap/datazip/region/vert/mLESH_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: CT (E), IA (T), KY (N), MI (T), MN (SPC), MS (Non-game species in need of management), NJ (U), NM (T), NY (U), PA (PE), WI (SC/N)

NS Global Rank: G5

NS State Rank: AL (S5), AR (S5), CO (S5), CT (S1), DC (S4), DE (SNR), FL (SNR), GA (S5), IA (S2), IL (S5), IN (S4), KS (S5), KY (S5), LA (S4), MD (S3S5), MI (S1S2), MN (S3), MO (SNR), MS (SNR), NC (S5), NE (S4), NJ (SU), NM (S2), NY (SH), OH (SNR), OK (S5), PA (S1), SC (SNR), SD (S3), TN (S5), TX (S4), VA (S5), WI (SH), WV (S2), ON (SH)

SUMMARY OF PREDICTED HABITAT BY MANAGMENT AND GAP PROTECTION STATUS:

	US FWS		US Forest Service		Tenn. Valley Author.		US DOD/ACOE		
	ha	%	ha	%	ha	%	ha	%	
Status 1	69,826.3	< 1	1,312.9	< 1	0.0	0	0.0	0	
Status 2	73,098.2	< 1	41,059.4	< 1	0.0	0	1,639.2	< 1	
Status 3	1,055.8	< 1	695,669.0	2	27,839.8	< 1	381,145.1	< 1	
Status 4	51.1	< 1	0.0	0	0.0	0	105.5	< 1	
Total	144,031.4	< 1	738,041.3	2	27,839.8	< 1	382,889.8	< 1	
	I		I		Ι		Ι		
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands		
	ha	%	ha	%	ha	%	ha	%	
Status 1	0.0	0	204,446.3	< 1	916.1	< 1	15,581.6	< 1	
Status 2	0.0	0	29,786.0	< 1	31,552.9	< 1	32.6	< 1	
Status 3	47,666.9	< 1	151,075.4	< 1	0.0	0	4,213.0	< 1	
Status 4	0.0	0	3.0	6	0.0	0	0.0	0	
Total	47,666.9	< 1	385,310.7	< 1	32,469.0	< 1	19,827.2	< 1	
	I		I		1		1		
	Native Am.	Reserv.	State Park/H	list. Park	State WMA/G	State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%	
Status 1	0.0	0	301.2	< 1	6.5	< 1	0.0	0	
Status 2	0.0	0	1,673.7	< 1	576,382.8	1	59.9	< 1	
Status 3	4,526.7	< 1	355,495.8	< 1	70,797.4	< 1	198,054.5	< 1	
Status 4	0.0	0	0.0	0	73,274.0	< 1	25.4	< 1	
Total	4,526.7	< 1	357,470.7	< 1	720,460.7	2	198,139.8	< 1	
	I		I		1		1		
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.		
	ha	%	ha	%	ha	%	ha	%	
Status 1	0.0	0	1,990.8	< 1	0.0	0	0.0	0	
Status 2	27,793.4	< 1	33,800.2	< 1	1.9	< 1	2,000.0	< 1	
Status 3	0.0	0	12,533.1	< 1	26,249.0	< 1	90,111.5	< 1	
Status 4	0.0	0	0.0	0	2,621.8	< 1	< 0.1	< 1	
Total	27,793.4	< 1	48,324.2	< 1	28,872.7	< 1	92,111.6	< 1	
	I		I		1		1		
	Private Land - No Res.		Water					all Total	
	ha	%	ha	%			ha	%	
Status 1	0.0	3	0.0	0			294,381.9	< 1	
Status 2	1.0	< 1	0.0	3			818,881.4	2	
Status 3	880.4	< 1	0.2	< 1			2,067,313.5	6	
Status 4	41,212,249.2	91	50,158.9	< 1			41,411,712.0	91	
Total	41,213,130.8	91	50,159.3	< 1			44,592,288.8	100	
	I		1		1				

GAP Status 1: An area having permanent protection from conversion of natural land cover and a mandated management plan in operation to maintain a natural state within which disturbance events (of natural type, frequency, and intensity) are allowed to proceed without interference or are mimicked through management.

GAP Status 2: An area having permanent protection from conversion of natural land cover and a mandated management plan in operation to maintain a primarily natural state, but which may receive use or management practices that degrade the quality of existing natural communities.

GAP Status 3: An area having permanent protection from conversion of natural land cover for the majority of the area, but subject to extractive uses of either a broad, low-intensity type or localized intense type. It also confers protection to federally listed endangered and threatened species throughout the area.

GAP Status 4: Lack of irrevocable easement or mandate to prevent conversion of natural habitat types to anthropogenic habitat types. Allows for intensive use throughout the tract. Also includes those tracts for which the existence of such restrictions or sufficient information to establish a higher status is unknown.

Year-round Model:

Habitat Description:

The least shrew uses a variety of habitats, but optimal habitat seems to be old fields, meadows or marshes near wooded or brushy areas and ecotones (Webster et al. 1985; Briese & Smith 1974). They are also found in pinewoods with dense herbaceous cover and in forest openings of grassy, weedy, and brushy condition (Whitaker and Hamilton 1998). This shrew can be found in the maritime forests and salt marshes of the coastal barrier islands (Webster et al. 1985). In the southern part of their range, least shrews may be found in wooded habitats such as saw palmetto hammocks or managed stands of mature loblolly or shortleaf pine. The determining factor may be presence of herbaceous ground cover, especially grasses (Cothran et al. 1991). They may prefer drier sites, but are more tolerant of fluctuating water levels than B. brevacauda (Layne 1984). In Tennessee, the home range for one female was 0.57 acre and was 0.41 acre for one male. Nest site may be underground or under logs, stumps, rocks, and boards. They breed March-November in the north and all year in south (mainly spring-summer). Gestation lasts about 2 weeks. Litter size is 2-7 (average 4-5) with two to three litters per year. The young are weaned in 3 weeks and are sexually mature after 5 weeks. Stacy Smith, 12June05

Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Developed Open Space
Anthropogenic	Evergreen Plantations
Anthropogenic	Pasture/Hay
Anthropogenic	Successional Grassland/Herbaceous
Anthropogenic	Successional Grassland/Herbaceous (Other)
Anthropogenic	Successional Grassland/Herbaceous (Utility Swath)
Anthropogenic	Successional Shrub/Scrub (Clear Cut)
Anthropogenic	Successional Shrub/Scrub (Other)
Anthropogenic	Successional Shrub/Scrub (Utility Swath)
Bald	Central Appalachian Montane Rocky Bald - Herbaceous Modifier
Bald	Central Appalachian Montane Rocky Bald - Shrub Modifier
Bald	Southern Appalachian Grass and Shrub Bald - Herbaceous Modifier
Bald	Southern Appalachian Grass and Shrub Bald - Shrub Modifier
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Central Salt and Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Embayed Region Tidal Salt and Brackish Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Indian River Lagoon Tidal Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Northern Sea-Level Fen
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Northern Tidal Salt Marsh
Brackish Tidal Marsh & Wetland	Florida Big Bend Salt-Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	Mississippi Sound Salt and Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	South Florida Everglades Sawgrass Marsh
Brackish Tidal Marsh & Wetland	Southwest Florida Perched Barriers Salt Swamp and Lagoon - Marsh Modifier
Forest/Woodland	Alabama Ketona Glade and Woodland
Forest/Woodland	Atlantic Coastal Plain Central Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland - Loblolly Modifier
Forest/Woodland	Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Scrub/Shrub Understory Modifier
Forest/Woodland	Atlantic Coastal Plain Northern Maritime Forest
Forest/Woodland	Central Appalachian Alkaline Glade and Woodland
Forest/Woodland	Central Appalachian Oak and Pine Forest
Forest/Woodland	Central Interior Highlands Calcareous Glade and Barrens
Forest/Woodland	Central Interior Highlands Dry Acidic Glade and Barrens
Forest/Woodland	Cumberland Sandstone Glade and Barrens
Forest/Woodland	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland - Woodland Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Pine Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Loblolly Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Scrub/Shrub Modifier
Forest/Woodland	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest - Offsite Pine Modifier

Forest/WoodlandFlorida Longleaf Pine Sandhill - Scrub/Shrub Understory ModifierForest/WoodlandNashville Basin Limestore GladeForest/WoodlandNortheastern Interior Dry Oak Forest - Virginia/Pitch Pine ModifierForest/WoodlandSoutheast Florida Costal Strand and Maritime HammockForest/WoodlandSoutheast Piedmont Dry Oak-(Pine) Forest - Uorginia/Pitch Pine ModifierForest/WoodlandSoutheast Piedmont Dry Oak-(Pine) Forest - Uirginia/Pitch Pine ModifierForest/WoodlandSoutheast Piedmont Dry Oak-(Pine) Forest - Uirginia/Pitch Pine ModifierForest/WoodlandSoutheast Plain Entral Fresh-Oligohaline Tidal MarshForest/WoodlandSoutheast Plain Entral Fresh-Oligohaline Tidal MarshForest/WoodlandAtlantic Coastal Plain Entral Fresh-Oligohaline Tidal MarshFreshwater Tidal Marsh & WetlandAtlantic Coastal Plain Entral Fresh-Oligohaline Tidal MarshFreshwater Tidal Marsh & WetlandAtlantic Coastal Plain Back Bet Calcareous Prairie and WoodlandPrairieEast Gulf Coastal Plain Back Bet Calcareous Prairie and WoodlandPrairieEast Gulf Coastal Plain Back Bet Calcareous Prairie and WoodlandPrairieEast Gulf Coastal Plain Jackson Prairie and BarrensPrairieEast Gulf Coastal Plain Jackson Prairie and BarrensPrairieEast Gulf Coastal Plain Jackson Prairie and BarrensPrairiePonthern Highland Rim Prairie a	
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Wetlands East Gulf Coastal Plain Large River Floodplain Forest - Herbaceous Modifier	
Wetlands East Gulf Coastal Plain Near-Coast Pine Flatwoods - Scrub/Shrub Understory Modifier	
Wetlands East Gulf Coastal Plain Northern Depression Pondshore	
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Wetlands East Gulf Coastal Plain Treeless Savanna and Wet Prairie	
Wetlands Floridian Highlands Freshwater Marsh	
Wetlands Lower Mississippi River Bottomland Depressions - Herbaceous Modifier	
Wetlands North-Central Appalachian Seepage Fen	
Wetlands South Florida Pond-Apple/Popash Slough	
Wetlands South-Central Interior Large Floodplain - Herbaceous Modifier	
Wetlands Southern and Central Appalachian Bog and Fen	
Wetlands Southern Coastal Plain Herbaceous Seepage Bog	
Wetlands Southern Piedmont Large Floodplain Forest - Herbaceous Modifier	

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